

What Is Claimed Is:

1. A radiation resistant enclosure comprising a door member hingedly fixed to a frame member having a doorway adjacent edge portions of the members being electrically conductive, one member including a conductive channel extending
5 lengthwise and having a back wall and a pair of side walls and the other member including an arched contact plate, a plurality of flange members and a conductive blade extending lengthwise and insertable within said channel, and a pair of elongated metal plates for engaging one respective side wall in said channel and the blade to establish good electrical contact therebetween, characterized in that said side walls incline inwardly towards one
10 another whereby to describe a truncated edge shaped cross-section including an interior shoulder and an elongated interior chamber adjacent the back wall, and each plate has opposite edges with a planar portion engaging side wall of said chamber and the shoulder, a bowed forward section extending from the planar portion engaging the side wall adjacent to the opening to said channel, and a bowed rearward section extending from the other edge and
15 a bowed central section connecting said sections and adapted to engage the blade.

2. The radiation resistant enclosure as recited in claim 1 wherein each side wall includes an inner and an outer portion, the respective portions being parallel and laterally offset from one another by its shoulder and said inner portion extending between its shoulder and the back wall.

3. The radiation resistant enclosure as recited in claim 1 further characterized by conductive first shield means in said channel engaging the back wall and the planar portion of said plates for electromagnetically shielding the enclosure, said first shield means
5 being engaged by the blade for conductively interconnecting the back wall and the metal plates with the blade when the door is closed.

4. The radiation resistant enclosure as recited in claim 3 wherein said first shield means comprises a metallic mesh surrounding a deformable body.

5. The radiation resistant enclosure as recited in claim 4 wherein each said planar portion is generally compressed into engagement with its respective side wall.
6. The radiation resistant enclosure as recited in claim 5 wherein the towed central sections engage one another when the blade is not in the channel and each shoulder engages its plate and functions as a fulcrum when the central section engages the blade to bias the forward sections of its plate against the chamber wall.
7. The radiation resistant enclosure as recited in claim 1 wherein said other member further comprises a plurality of laterally separated arched contact plate fingers. (**Note: door contact plates**)
8. The radiation resistant enclosure as recited in claim 1 wherein a plurality of laterally separated slots extend inwardly from the other edge of each said plate whereby to define a plurality of resilient fingers, each slot having an inward terminus adjacent to the one edge.
9. The radiation resistant enclosure as recited in claim 1 wherein said side walls describe a double included angle of between 10 and 50 degrees.
10. The radiation resistant enclosure as recited in claim 1 wherein each side wall is at an acute angle to a perpendicular drawn to the back wall, said acute angle being approximately 16 degrees.
11. The radiation resistant enclosure as recited in claim 1 wherein said channel forms a continuous 360 degree opening to receive a like extending blade.

12. The radiation resistant enclosure as recited in claim 1 characterized by conductive second shield means exterior of the channel for shielding 360 degrees around the door and the frame when the door is closed.

13. A doorway construction for a radio-frequency resistant enclosure of the type including a door frame defining a doorway, a door pivotally supported on said door frame and sized to close said doorway, each said door and door frame having conductive edge portions and both having doorway and door contact plate portions cooperating to offer and receive a conductive blade when the door is closed, completing a conductive path between the door and doorway portions and said blade, characterized in that doorway portion includes a channel having a pair of stepped side walls and an end wall whereby to define an elongated chamber interiorly of the channel the end wall, each side wall including a first, second and third portion, the third portions facing the end wall and joining the first and second portions whereby to define a shoulder, and said contact means comprise a pair of contact members that extend the length of the channel for electrically interconnecting with each portion of the side walls, the opposite sides of said blade when the blade is inserted therein, each contact member having a pair of bowed sections, respectively, engaging the first portion and a second portion of one said side wall.

14. The doorway construction as recited in claim 13 wherein said side walls incline towards one another at an acute angle to a perpendicular to the end wall.